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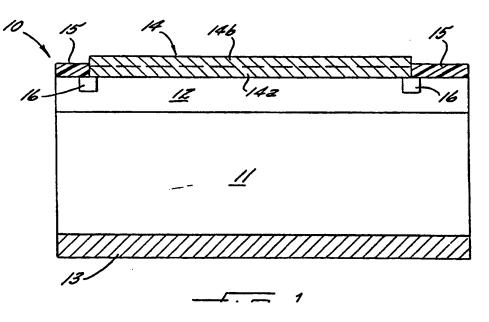
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## **EUROPEAN PATENT APPLICATION**

- 21 Application number: 90300796.1
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- 2 Date of filing: 25.01.90
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- 43 Date of publication of application: 01.08.90 Bulletin 90/31
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   DE FR GB IT NL SE
- Date of deferred publication of the search report: 27.02.91 Bulletin 91/09
- Applicant: CREE RESEARCH, INC. 2810 Meridian Parkway, Suite 176 Durham, North Carolina 27713(US)
- inventor: Palmour, John W. 125 Trapper Run Drive Cary, North Carolina 27511(US)
- Representative: Warren, Keith Stanley et al BARON & WARREN 18 South End Kensington London W8 5BU(GB)
- Silicon carbide Schottky diode and method of making same.

the platinum to platinum silicide. An ohmic contact (13) to the substrate (11) is also provided. A guard ring (16) or field plate may be provided. The Schottky contact exhibits lower forward resistance, lower reverse current and higher reverse breakdown voltage than heretofore available designs.



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European **Patent Office** 

## **EUROPEAN SEARCH REPORT**

**Application Number** 

EP 90 30 0796

DOCUMENTS CONSIDERED TO BE RELEVANT			ANT		
ategory		h indication, where appropriate, vant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)	
Α	APPLIED PHYSICS LETTERS. vol. 46, no. 8, April 1985, NEW YORK US pages 766 - 768; S.Yoshida et al.: "Schottky Barrier Diodes on 3C-SiC"  * abstract *		1	H 01 L 29/91	
A	OXFORD GB pages 499 - 5	CS. vol. 20, no. 6, June 1977, 06; A.Rusu et al.: "THE METAL- FUSED (MOLD) SCHOTTKY DI-	7-9		
P,A	JOURNAL OF APPLIED PHYSICS. vol. 65, no. 9, May 1989, NEW YORK US pages 3526 - 3530; N.A.Papanicolaou et al.: "Pt and PtSix Contacts on n-type beta-SiC" * abstract *		1-5		
				TECHNICAL FIELDS SEARCHED (Int. CI.5)	
				H 01 L	
<del></del>	The present search report has	been drawn up for all claims	-		
	Place of search	Date of completion of search	<u> </u>	Examiner	
		11 December 90	[	NILES N.P.E.	

CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone
 Y: particularly relevant if combined with another document of the same catagory

the filing date

D: document cited in the application

L: document cited for other reasons